

Refine Search

Search Results -

Term	Documents
K-SPACE	1589
K-SPACES	19
MATRIX	589898
MATRICES	75022
MATRIXES	8712
(2 AND (K-SPACE ADJ MATRIX)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	17
(L2 AND (K-SPACE ADJ MATRIX)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	17

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 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L3</u>	L2 and (k-space adj matrix)	17	<u>L3</u>
<u>L2</u>	L1 and (motion adj (correction or artifact))	256	<u>L2</u>
<u>L1</u>	(magnetic adj resonance) and k-space	1332	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Term	Documents
K-SPACE	1589
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MATRIX	589898
MATRICES	75022
MATRIXES	8712
(7 AND (K-SPACE ADJ MATRIX)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11
(L7 AND (K-SPACE ADJ MATRIX)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

Database:

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Search:

L8

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DATE: Wednesday, June 16, 2004 [Printable Copy](#) [Create Case](#)

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L8</u>	L7 and (k-space adj matrix)	11	<u>L8</u>
<u>L7</u>	L6 and matrix	60	<u>L7</u>
<u>L6</u>	L5 and (Data adj set)	100	<u>L6</u>
<u>L5</u>	L1 and ((cardiac or respiratory) adj motion)	144	<u>L5</u>
<u>L4</u>	L1 and ((cardiac or respiratory) adj motion)	144	<u>L4</u>
<u>L3</u>	L2 and (k-space adj matrix)	17	<u>L3</u>

<u>L2</u>	L1 and (motion adj (correction or artifact))	256	<u>L2</u>
<u>L1</u>	(magnetic adj resonance) and k-space	1332	<u>L1</u>

END OF SEARCH HISTORY

06/16/2004

10/608,141

16jun04 10:31:00 User267149 Session D1455.1

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2004/Jun W1

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*File 155: Medline has been reloaded. Accession numbers have changed. Please see HELP NEWS 154 for details.

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*File 2: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

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*File 58: The update code has been incremented to reflect this ren
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

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File 292:GEOBASE(TM) 1980-2004/Jun B1

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*File 89: Truncate SH codes for a complete retrieval.

File 65:Inside Conferences 1993-2004/Jun W2

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200437

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*File 350: For more current information, include File 331 in your search.
Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2004/Feb(Updated 040607)

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*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
S1	1716930	MRI OR MAGNETIC(1W) (IMAG? OR IMAGING) OR MAGNETIC(W) RESONA- N? OR NMR OR NUCLEAR() MAGNETIC() RESONANCE OR FTNMR OR FTMRI - OR MAGNETORESONANCE OR PMR OR PROTON(W) MAGNETIC(W) RESONAN? OR MR() (IMAGE? OR IMAGING)
S2	39532	MC=(S01-E02A2 OR S03-E07A OR S01-E02A8A OR S01-E02A1 OR S0- 3-E07C OR S05-D02B1 OR S03-C02F1) OR IC=(G01R-003 OR G01N-024- /08 OR G01V-003/A75) OR CC=(A0758 OR A8760I OR B7510N)
S3	1730585	S1:S2
S4	164533	(ORGAN? ? OR HEAD? ? OR ARTIFACT? ? OR VECTOR? OR TRANSLAT? OR ROTATION?) (3N) (MOTION? OR MOVEMENT? OR MOVING)
S5	83981	(CORRECT? OR ADJUST? OR CHANG?) (3N) (MOTION? OR MOVEMENT? OR MOVING)
S6	242420	S4:S5
S7	8145	K() SPACE
S8	62	(K() SPACE) (3N) (MATRIX OR MATRICES)
S9	8145	S7:S8
S10	7820	PRELIMINAR? (3N) (SET OR SETS)
S11	534262	DATA(3N) (INDICAT? OR MOTION? OR MOVEMENT? OR MOVING)
S12	347870	(INVERSE OR TRANSFORM?) (3N) FOURIER
S13	203486	(RECONSTRUCT? OR BRAIN? OR HEAD? ?) (3N) IMAG?
S14	8609	S3 AND S4
S15	8609	S14 AND S6
S16	445	S15 AND S9
S17	0	S16 AND S10
S18	45	S16 AND S11
S19	1	S18 AND S12
S20	44	S18 NOT S19
S21	17	S20 AND S13
S22	5	RD (unique items)
S23	27	S20 NOT S21
S24	13	RD (unique items)
S25	566	S6 AND S9
S26	121	S25 AND S13
S27	19	S26 AND S12
S28	19	S27 NOT S18
S29	14	RD (unique items)
S30	6086	S13 AND S12
S31	39	S30 AND S11
S32	0	S31 AND S10
S33	21	S31 AND S6
S34	19	S33 NOT S27,S18
S35	9	RD (unique items)

Query/Command : his


File : PLUSPAT

SS Results

1	1	US20040102695/PN
2	1	..CITB US20040102695/PN
3	1	..CITF US20040102695/PN
4	2 (1)	..FAM US20040102695/PN

Query/Command : prt max set

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN -  US2004102695 A1 20040527 [US20040102695]

TI - (A1) Method and device for correcting organ motion artifacts in MRI systems

IN - (A1) YOUNIS WAHEED (CA); DHANANTWARI AMAR (CA); STERGIOPOULOS STERGIOS (CA); WROBEL MIROSLAW (DE); FREIBERT ANDREAS (DE)

AP - US60814103 20030630 [2003US-0608141]

FD - Provisional: US 60428712 - 20021125 [2002US-P428712]

PR - US60814103 20030630 [2003US-0608141]
US42871202P 20021125 [2002US-P428712]

IC - (A1) A61B-005/05 G01V-003/00

PCL - ORIGINAL (O) : 600413000; CROSS-REFERENCE (X) : 324309000;
324307000

DT - Basic

STG - (A1) Utility Patent Application published on or after January 2, 2001

AB - The present invention relates to a signal processing method and system for correcting organ motion artifacts for cardiac and brain imaging. A plurality of sets of MRI measurement data indicative of at least an image of an object is received. Each set corresponds to one row k_x of a k -space matrix of at least a k -space matrix. For each set a k -space matrix of the at least a k -space matrix is determined for allocation thereto based on motion information of the object occurring during acquisition of the plurality of sets of the MRI measurement data. In a following step a location within the allocated k -space matrix corresponding to a row of the k -space matrix allocated thereto is determined for each set. At least a k -space matrix is then generated by re-arranging the plurality of sets. Each of the at least a k -space matrix comprises the sets of the plurality of sets of the MRI measurement data allocated thereto. Inverse Fourier transforming of the plurality of k -space matrices provides at least a reconstructed image. Through careful selection of the phases of the cardiac and respiratory cycles and corresponding ranges MRI data acquisition periods are of the order of seconds or a few minutes. Furthermore, integration of motion artifact free MRI images of different phases of organ motion using the coherent k -space synthesis according to the invention allows provision of an animation showing different phases of a cardiac or lung cycle. In an embodiment for correcting motion artifacts for brain imaging a motion vector describing translational and rotational motion of a patient's head is tracked during the MRI data acquisition process. The motion artifacts are then corrected based on coherent k -space synthesis using the motion vector data.

UP - 2004-22

Online European Patent Register - Results

Status of the database as of 15-06-2004 (dd-mm-yyyy)

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publication

Date of entry 11-06-2004

Publication numbers, publication type and publication dates

WO2004048993 10-06-2004

Application numbers and filing date

EP20030775030 (03775030.4) 

Date of filing 24-11-2003

WO2003CA01818

Date of publication of search report

International Searching

Authority EP

Designated states

AT , BE , CH , DE , DK , ES , FR , GB , GR , IE , IT , LI , LU , MC , NL , PT ,
SE , FI , CY , TR , BG , CZ , EE , HU , RO , SI , SK

Procedure language

EN

Location of file and fax number for file inspection requests

Application is treated in
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